1	1.	1. (Currently Amended) A method of generating contour lines from row and				
2	eolumn elevation data, the method comprising the steps of:					
3		a)	selecting a f	irst data point from the row and column elevation data		
4	comprising a first state;					
5		b)	setting the r	ow and column data to an initial contour value, the row and		
6	column data comprising a first state;					
7		<del>b)</del> <u>c)</u>	comparing a	second data point with the first state for determining an		
8	existence of a contour line depending on a result from the step of comparing;					
9		<del>e)</del> —	<del>determinin</del> g	an existence of a contour line;		
10		<b>d)</b>	updating the	first state to a next state, wherein the next state comprises		
11	a next row and column data, if the contour line exists;					
12		e)	creating a pe	ortion of a contour line image, if the contour		
13	line exists;					
14		f)	proceeding (	to a next data point; and		
15		g)	repeating ste	eps b) through g) f) for a next column or row.		
1		2.	(Original)	The method of claim 1 wherein the step of proceeding		
2	comprises proceeding in a predetermined direction.					
1		3.	(Original)	The invention of claim 2 wherein the step of proceeding		
2	in a predetermined direction comprises proceeding in predetermined row and column					
3	directions.					
1		4.	(Original)	The method of claim 1 further comprising the step of		
2	selecting a contour line interval.					
1		5.	(Original)	The method of claim 1 further comprising anti-aliasing		
2	the contour line image.					
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- 1 6. (Original) The method of claim 1 wherein the step of updating 2 comprises determining if an elevation point row and column data exceeds a current row or 3 column base elevation by a value greater than a contour interval.
- 7. (Currently Amended) The method of <u>claim 1</u> wherein the step of updating comprises storing the next state in a memory.
- 1 8. (Original) The method of claim 7 wherein the step of storing 2 comprises storing the row and column base elevation.
- 1 9. (Original) The method of claim 1 wherein the step of creating 2 comprises drawing the portion of the contour line image.
- 1 10. (Original) The method of claim 9 wherein the step of drawing 2 comprises displaying the portion of the contour line image.
- 1 I1. (Original) The method of claim 1 wherein the state of creating and 2 the step of repeating comprises creating an entire contour line image.

1	12.	(Original)	A method of transforming input elevation data into a		
2	real-time contour plot image, the method comprising the steps of:				
3	a)	selecting an ordering sequence;			
4	b)	selecting a contour line interval;			
5	c)	determining	initial row and column base elevation values;		
6	d)	selecting a f	irst data point;		
7	e)	determining	whether a contour line point has been detected by		
8	comparing the row base elevation value or column base elevation value plus the contour				
9	interval to the elevation data;				
10	f)	drawing a po	ortion of a contour plot image;		
11	g)	updating the	row and column elevation values to a highest contour		
12	interval multiple less than a elevation data point;				
13	h)	moving to a	next data point; and		
14	·· i)	repeating ste	eps e) through h).		
1	13.	(Original)	The method of claim 12 wherein the step of determining		
2	initial row and column base elevation values comprises selecting a contour elevation closest				
3	to but not exceeding the first elevation value in the row.				
1	14.	(Original)	The method of claim 12 wherein the step of drawing		
2	and the step of repeating comprises drawing an entire contour line image.				

1 2 15. (Currently Amended) An apparatus for generating contour lines from 3 row and column data, the apparatus comprising: 4 a first data point from the row and column data 5 comprising a first state; 6 a means for comparing a second data point with the first 7 state for determining an existence of a contour line depending on a result from the means for 8 comparing; 9 a means for determining an existence of a contour line; 10 a means for updating the first state to a next state, if the 11 contour line exists; 12 a means for creating a portion of a contour line image, if the contour 13 line exists; 14 a next data point for comparing with the next state by the means for 15 comparing, the next state comprising a next row and column data; and 16 a means for drawing an entire contour line image from a plurality of 17 portions of contour line images created by the means for creating. 1 16. (Original) The apparatus of claim 15 wherein said means for 2 creating comprises a display. 1 17. (Original) The apparatus of claim 15 further comprising memory 2 for storing the next state. 1 18. (Original) The apparatus of claim 15 further comprising a means 2 for anti-aliasing the entire contour line image.